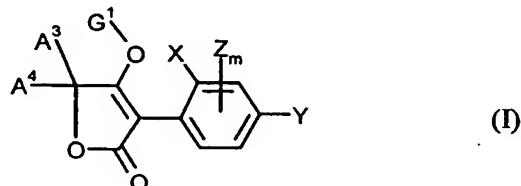


Patent claims

1. A composition comprising a synergistically effective active compound combination of compounds of the formula (I) (group 1)



5

in which

X represents C₁-C₆-alkyl, bromine, C₁-C₆-alkoxy or C₁-C₃-haloalkyl,Y represents hydrogen, C₁-C₆-alkyl, halogen, C₁-C₆-alkoxy, C₁-C₃-haloalkyl,Z represents C₁-C₆-alkyl, halogen, C₁-C₆-alkoxy,

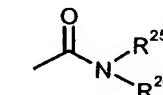
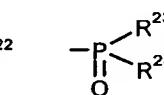
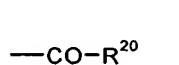
10 m represents a number 0-3,

A³ represents hydrogen or in each case optionally halogen-substituted straight-chain or branched C₁-C₁₂-alkyl, C₂-C₈-alkenyl, C₂-C₈-alkynyl, C₁-C₁₀-alkoxy-C₁-C₈-alkyl, C₁-C₈-polyalkoxy-C₂-C₈-alkyl, C₁-C₁₀-alkylthio-C₂-C₈-alkyl, cycloalkyl having 3-8 ring atoms which may be interrupted by oxygen and/or sulfur or in each case optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-haloalkyl-, C₁-C₆-alkoxy-, C₁-C₆-haloalkoxy, nitro-substituted phenyl or phenyl-C₁-C₆-alkyl,

15 A⁴ represents hydrogen, C₁-C₆-alkyl or C₁-C₆-alkoxy-C₁-C₄-alkyl

or in which

20 A³ and A⁴ together with the carbon atom to which they are attached form a saturated or unsaturated 3- to 8-membered ring which is optionally interrupted by oxygen and/or sulfur and optionally substituted by halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio or optionally substituted phenyl or is optionally benzo-fused,

25 G¹ represents hydrogen (a) or represents the groups

(b)

(c)

(d)

(e)

(f)

in which

R²⁰ represents in each case optionally halogen-substituted C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₁-C₈-alkoxy-C₁-C₈-alkyl, C₁-C₈-alkylthio-C₁-C₈-alkyl,

C₁-C₈-polyalkoxy-C₂-C₈-alkyl or cycloalkyl having 3-8 ring atoms which may be interrupted by oxygen and/or sulfur atoms;

represents optionally halogen-, nitro-, C₁-C₆-alkyl-, C₁-C₆-alkoxy-, C₁-C₆-haloalkyl-, C₁-C₆-haloalkoxy-substituted phenyl;

5 represents optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-alkoxy-, C₁-C₆-haloalkyl-, C₁-C₆-haloalkoxy-substituted phenyl-C₁-C₆-alkyl,

represents in each case optionally halogen- and/or C₁-C₆-alkyl-substituted pyridyl, pyrimidyl, thiazolyl or pyrazolyl,

represents optionally halogen- and/or C₁-C₆-alkyl-substituted phenoxy-C₁-C₆-alkyl,

10 R²¹ represents in each case optionally halogen-substituted C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₁-C₈-alkoxy-C₂-C₈-alkyl or C₁-C₈-polyalkoxy-C₂-C₈-alkyl,

represents in each case optionally halogen-, nitro-, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkyl-substituted phenyl or benzyl,

15 R²² represents optionally halogen-substituted C₁-C₈-alkyl, represents in each case optionally C₁-C₄-alkyl-, halogen-, C₁-C₄-haloalkyl-, C₁-C₄-alkoxy-, C₁-C₄-haloalkoxy-, nitro- or cyano-substituted phenyl or benzyl,

R²³ and R²⁴ independently of one another represent in each case optionally halogen-substituted C₁-C₈-alkyl, C₁-C₈-alkoxy, C₁-C₈-alkylamino, di(C₁-C₈)alkylamino, C₁-C₈-alkylthio, C₂-C₅-alkenylthio, C₂-C₅-alkynylthio, C₃-C₇-cycloalkylthio, represent in each case optionally halogen-, nitro-, cyano-, C₁-C₄-alkoxy-, C₁-C₄-haloalkoxy-, C₁-C₄-alkylthio-, C₁-C₄-haloalkylthio-, C₁-C₄-alkyl-, C₁-C₄-haloalkyl-substituted phenyl, phenoxy or phenylthio,

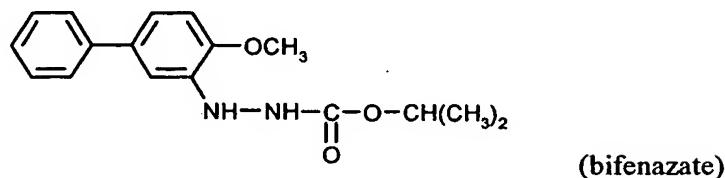
20 R²⁵ and R²⁶ independently of one another represent in each case optionally halogen-substituted C₁-C₁₀-alkyl, C₁-C₁₀-alkoxy, C₃-C₈-alkenyl, C₁-C₈-alkoxy-C₁-C₈-alkyl, represent optionally halogen-, C₁-C₆-haloalkyl-, C₁-C₆-alkyl- or C₁-C₆-alkoxy-substituted phenyl, represent optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-haloalkyl- or C₁-C₆-alkoxy-substituted benzyl or together represent a 5- to 6-membered ring which is optionally interrupted by oxygen or sulfur and which may optionally be substituted by C₁-C₆-alkyl,

25

30

or an acaricidally active compound (group 2), preferably

(2-1) the phenylhyrazine derivative of the formula

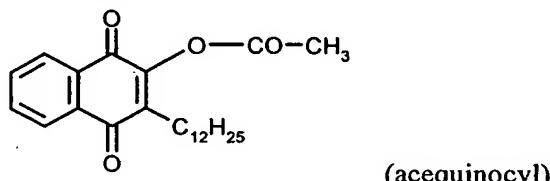


and/or

5 (2-2) the macrolide with the common name abamectin

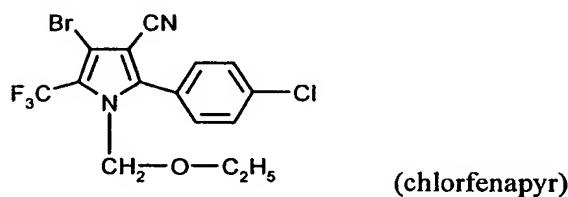
and/or

(2-3) the naphthalenedione derivative of the formula



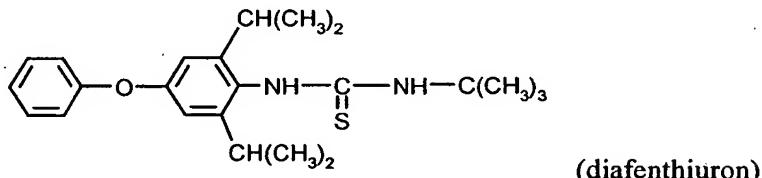
and/or

10 (2-4) the pyrrole derivative of the formula



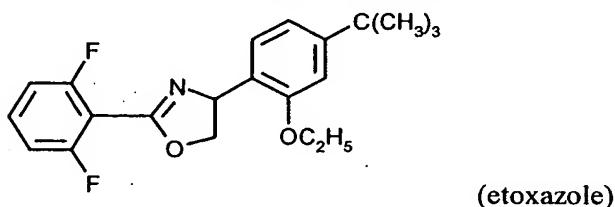
and/or

(2-5) the thiourea derivative of the formula



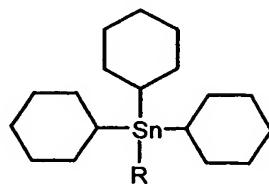
15 and/or

(2-6) the oxazoline derivative of the formula

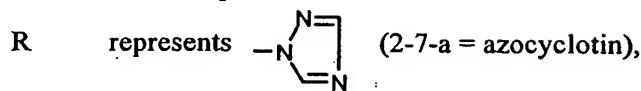


and/or

(2-7) an organotin derivative of the formula



in which

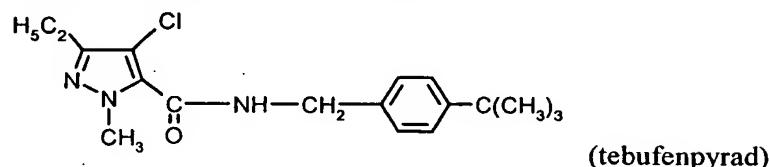


or

5 R represents -OH (2-7-b = cyhexatin),

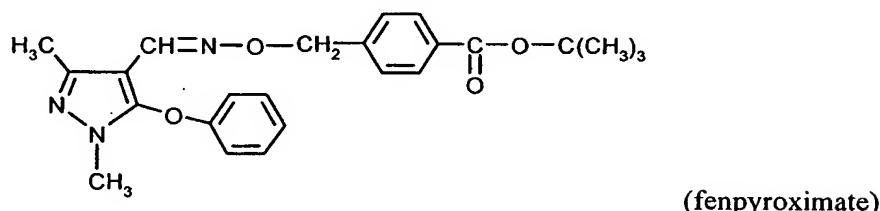
and/or

(2-8) the pyrazole derivative of the formula



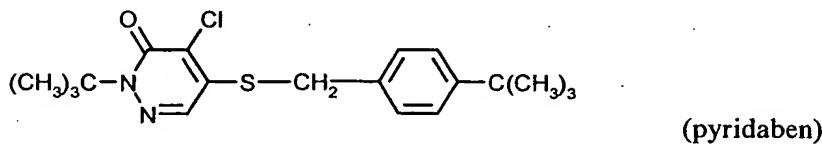
and/or

10 (2-9) the pyrazole derivative of the formula



and/or

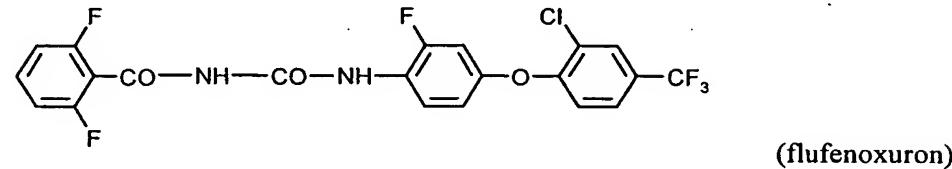
(2-10) the pyridazinone derivative of the formula



15

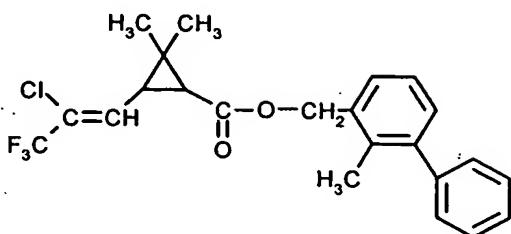
and/or

(2-11) the benzoylurea derivative of the formula



and/or

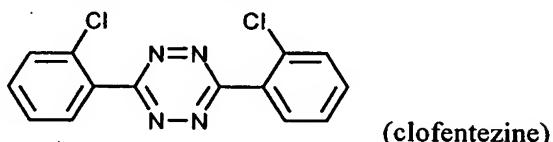
(2-12) the pyrethroid of the formula



(bifenthrin)

and/or

(2-13) the tetrazine derivative of the formula

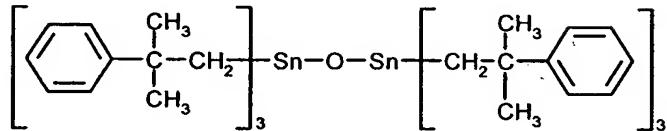


(clofentezine)

5

and/or

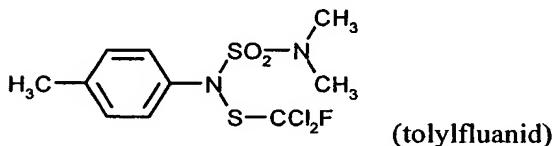
(2-14) the organotin derivative of the formula



(fenbutatin oxide)

and/or

(2-15) the sulfenamide of the formula

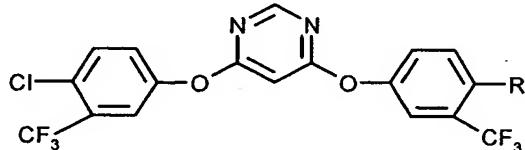


10

(tolylfluanid)

and/or

(2-16) the pyrimidyl phenol ethers of the formula



in which

15

R represents fluorine (2-16-a = 4-[(4-chloro- α,α,α -trifluoro-3-tolyl)oxy]-6-[(α,α,α -4-tetrafluoro-3-tolyl)oxy]pyrimidine)

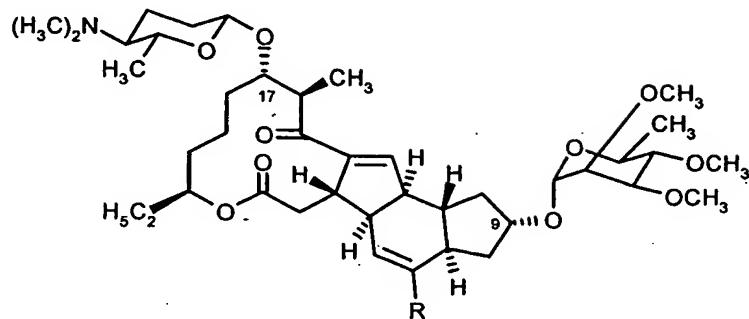
R represents nitro (2-16-b = 4-[(4-chloro- α,α,α -trifluoro-3-tolyl)oxy]-6-[(α,α,α -trifluoro-4-nitro-3-tolyl)oxy]pyrimidine)

R represents bromine (2-16- = 4-[(4-chloro- α,α,α -trifluoro-3-tolyl)oxy]-6-[(α,α,α -trifluoro-4-bromo-3-tolyl)oxy]pyrimidine)

20

and/or

(2-17) the macrolide of the formula



(spinosad)

a mixture comprising, preferably,

85% spinosyn A (R = H)

5 15% spinosyn B (R = CH₃)

and/or

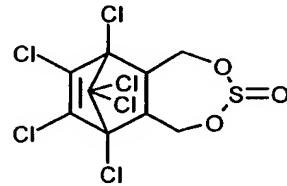
(2-18) ivermectin

and/or

(2-19) milbemectin

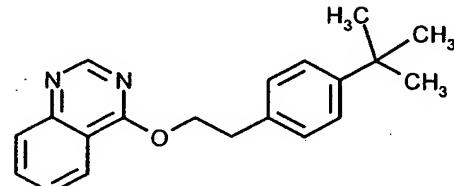
10 and/or

(2-20) endosulfan



and/or

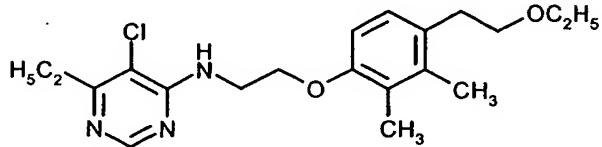
(2-21) fenazaquin



15

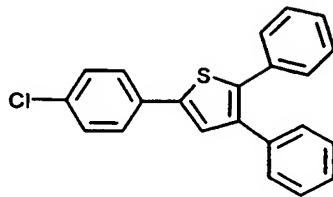
and/or

(2-22) pyrimidifen



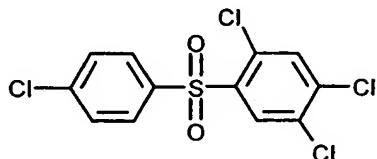
and/or

20 (2-23) triarathen



and/or

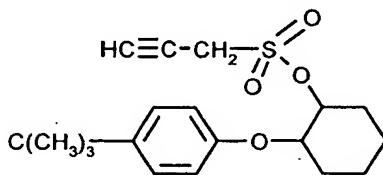
(2-24) tetradifon



5

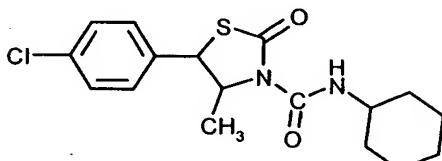
and/or

(2-25) propargite



and/or

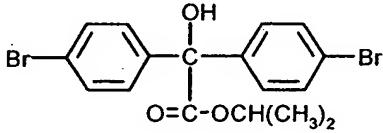
(2-26) hexythiazox



10

and/or

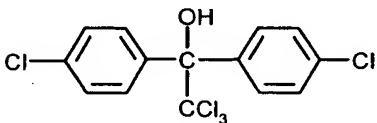
(2-27) bromopropylate



and/or

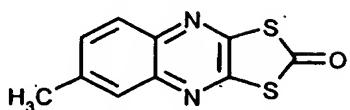
15

(2-28) dicofol



and/or

(2-29) chinomethionat



and at least one active compound from the group of the anthranilamides of the formula (II).

5 2. The composition as claimed in claim 1, comprising at least one compound of the formula (I) in which

X represents C₁-C₄-alkyl, bromine, C₁-C₄-alkoxy or C₁-C₃-haloalkyl,

Y represents hydrogen, C₁-C₄-alkyl, fluorine, chlorine, bromine, C₁-C₄-alkoxy, C₁-C₃-haloalkyl,

10 Z represents C₁-C₄-alkyl, chlorine, bromine, C₁-C₄-alkoxy,

m represents a number 0-2,

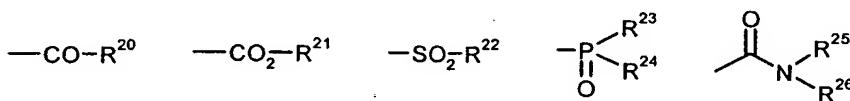
15 A³ represents hydrogen or in each case optionally mono- to trifluoro-substituted straight-chain or branched C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₄-alkoxy-C₁-C₂-alkyl, cycloalkyl having 3-8 ring atoms which may optionally be interrupted by oxygen and/or sulfur or represents benzyl or phenyl which is optionally mono- to disubstituted by fluorine, chlorine, bromine, C₁-C₂-alkyl, C₁-C₂-haloalkyl, C₁-C₂-alkoxy, C₁-C₂-haloalkoxy, nitro,

A⁴ represents hydrogen, C₁-C₂-alkyl or C₁-C₂-alkoxy-C₁-C₂-alkyl

or in which

20 A³ and A⁴ together with the carbon atom to which they are attached form a saturated or unsaturated 3- to 7-membered ring which is optionally interrupted by oxygen and/or sulfur and optionally mono- to disubstituted by fluorine, chlorine, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy or C₁-C₂-alkylthio,

G¹ represents hydrogen (a) or represents groups



25

(b)

(c)

(d)

(e)

(f)

in which

R²⁰ represents in each case optionally mono- to pentafluoro- or -chloro-substituted C₁-C₁₆-alkyl, C₂-C₁₆-alkenyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl or cycloalkyl having 3-6 ring atoms which may be interrupted by oxygen and/or sulfur atoms,
30 represents phenyl which is optionally mono- to disubstituted by fluorine,

chlorine, bromine, nitro, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkyl,
 5 C₁-C₄-haloalkoxy,
 represents benzyl which is optionally mono to disubstituted by fluorine,
 chlorine, bromine, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-
 haloalkoxy,
 10 represents pyridyl, pyrimidyl, thiazolyl or pyrazolyl, each of which is
 optionally mono- to disubstituted by chlorine, bromine and/or C₁-C₄-alkyl,
 R²¹ represents C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₁-C₆-alkoxy-C₂-C₆-alkyl, C₁-C₆-
 polyalkoxy-C₂-C₆-alkyl, each of which is optionally mono- to
 pentasubstituted by fluorine or chlorine,
 represents phenyl or benzyl, each of which is optionally mono- to
 disubstituted by fluorine, chlorine, bromine, nitro, C₁-C₆-alkyl, C₁-C₆-
 alkoxy, C₁-C₄-haloalkyl,
 15 R²² represents C₁-C₄-alkyl which is optionally mono- to pentasubstituted by
 fluorine or chlorine, represents phenyl or benzyl, each of which is
 optionally mono- to disubstituted by C₁-C₄-alkyl, fluorine, chlorine,
 bromine, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, nitro or cyano,
 20 R²³ and R²⁴ independently of one another represent C₁-C₄-alkyl, C₁-C₄-alkoxy,
 C₁-C₄-alkylamino, di(C₁-C₄)alkylamino, C₁-C₄-alkylthio, C₂-C₄-alkenyl-
 thio, C₃-C₆-cycloalkylthio, each of which is optionally mono- to
 trisubstituted by fluorine or chlorine, represent phenyl, phenoxy or
 phenylthio, each of which is optionally mono- to disubstituted by fluorine,
 chlorine, bromine, nitro, cyano, C₁-C₂-alkoxy, C₁-C₂-haloalkoxy, C₁-C₂-
 alkylthio, C₁-C₂-haloalkylthio, C₁-C₂-alkyl, C₁-C₂-haloalkyl,
 25 R²⁵ and R²⁶ independently of one another represent C₁-C₆-alkyl, C₁-C₆-alkoxy,
 C₃-C₆-alkenyl, C₁-C₄-alkoxy-C₁-C₂-alkyl, each of which is optionally
 mono- to trisubstituted by fluorine or chlorine, represent benzyl which is
 optionally mono- to disubstituted by fluorine, chlorine, bromine, C₁-C₂-
 haloalkyl, C₁-C₄-alkyl or C₁-C₄-alkoxy or together represent a 5- to 6-
 30 membered ring which is optionally interrupted by oxygen or sulfur and
 which may optionally be substituted by C₁-C₂-alkyl,
 and at least one anthranilamide of the formula (II).

3. The composition as claimed in claim 1 or 2, comprising at least one compound of the
 35 formula (I) in which

X represents C₁-C₄-alkyl, C₁-C₄-alkoxy or trifluoromethyl,
Y represents hydrogen, C₁-C₄-alkyl, chlorine, bromine, C₁-C₄-alkoxy, C₁-C₂-haloalkyl,

Z represents C₁-C₄-alkyl, chlorine, bromine, C₁-C₄-alkoxy,

A^3 and A^4 together with the carbon atom to which they are attached represent a saturated 5- to 6-membered ring which is optionally monosubstituted by C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy.

G¹ represents hydrogen (a) or represents the groups



, in which

10 (b) (c)

R^{20} represents in each case optionally mono- to trifluoro- or -chloro-substituted C_1 - C_{12} -alkyl, C_2 - C_{12} -alkenyl, C_1 - C_4 -alkoxy- C_1 - C_2 -alkyl, or cycloalkyl having 3-6 ring atoms which may be interrupted by 1 to 2 oxygen atoms,

15 represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, nitro, C₁-C₄-alkyl, C₁-C₄-alkoxy, trifluoromethyl or trifluoromethoxy;

R^{21} represents C_1-C_{12} -alkyl, C_2-C_{12} -alkenyl, C_1-C_4 -alkoxy- C_2-C_4 -alkyl, represents phenyl or benzyl, each of which is optionally monosubstituted by

20 fluorine, chlorine, bromine, nitro, C₁-C₄-alkyl, C₁-C₄-alkoxy or trifluoromethyl,

and at least one anthranilamide of the formula (II).

4. The composition as claimed in claim 1, 2 or 3, comprising at least one compound of the formula (I) in which

X represents methyl, ethyl, methoxy, ethoxy or trifluoromethyl,

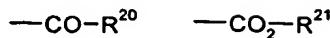
Y represents hydrogen, methyl, ethyl, chlorine, bromine, methoxy or trifluoromethyl.

Z represents methyl, ethyl, chlorine, bromine or methoxy.

m represents 0 or 1,

30 A³ and A⁴ together with the carbon atom to which they are attached form a saturated 5- to 6-membered ring which is optionally monosubstituted by methyl, ethyl, propyl, methoxy, ethoxy, propoxy, butoxy or isobutoxy.

G¹ represents hydrogen (a) or represents the groups



, in which

(b) (c)

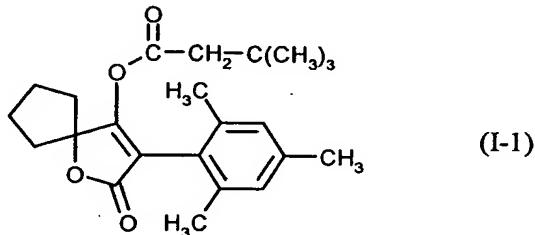
R^{20} represents in each case mono- to trifluoro- or -chloro-substituted C_1 - C_8 -alkyl, C_2 - C_8 -alkenyl, C_1 - C_3 -alkoxy- C_1 - C_2 -alkyl, or cycloalkyl having 3-6 ring atoms which may be interrupted by 1 to 2 oxygen atoms,

5 R^{21} represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl or trifluoromethoxy;

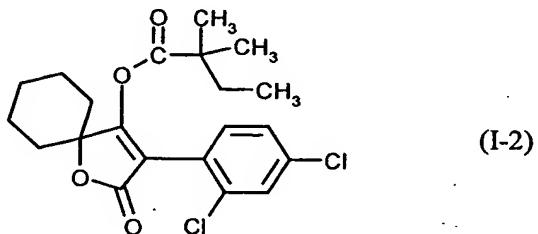
R^{21} represents C_1 - C_8 -alkyl, C_2 - C_8 -alkenyl, C_1 - C_4 -alkoxy- C_2 - C_3 -alkyl, represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, nitro, methyl, methoxy or trifluoromethyl,

10 and at least one anthranilamide of the formula (II).

5. The composition as claimed in claim 1, 2, 3 or 4, comprising the compound of the formula (I-1)

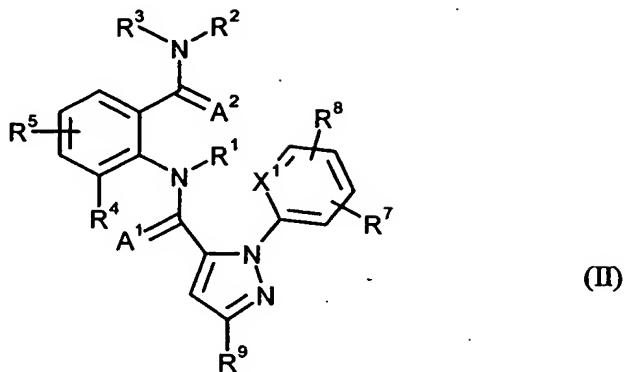


15 and/or the compound of the formula (I-2)



and at least one anthranilamide of the formula (II).

6. The composition as claimed in claim 1, 2, 3, 4 or 5, comprising at least one anthranilamide of the formula (II)



in which

A¹ and A² independently of one another represent oxygen or sulfur,

X¹ represents N or CR¹⁰,

5 R¹ represents hydrogen or represents in each case optionally mono- or polysubstituted C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₂-C₄-alkoxycarbonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, (C₁-C₄-alkyl)C₃-C₆-cycloalkylamino and R¹¹,

10 R² represents hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₂-C₆-alkoxycarbonyl or C₂-C₆-alkylcarbonyl,

15 R³ represents hydrogen, R¹¹ or represents in each case optionally mono- or polysubstituted C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl, R¹¹, phenyl, phenoxy and a 5- or 6-membered heteroaromatic ring, where each phenyl, phenoxy and 5- or 6-membered heteroaromatic ring may optionally be substituted and where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹², or

20 R² and R³ may be attached to one another and form the ring M,

R⁴ represents hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkyl-

sulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₃-C₆-trialkylsilyl or represents in each case optionally mono- or polysubstituted phenyl, benzyl or phenoxy, where the substituents independently of one another may be selected from the group consisting of C₁-C₄-alkyl, C₂-C₄-alkenyl; C₂-C₄-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-haloalkyl, C₂-C₄-haloalkenyl, C₂-C₄-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₃-C₆-(alkyl)-cycloalkylamino, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl, C₃-C₈-dialkylaminocarbonyl and C₃-C₆-trialkylsilyl,

R⁵ and R⁸ in each case independently of one another represent hydrogen, halogen or represent in each case optionally substituted C₁-C₄-alkyl, C₁-C₄-haloalkyl, R¹², G, J, -OJ, -OG, -S(O)_p-J, -S(O)_p-G, -S(O)_p-phenyl, where the substituents independently of one another may be selected from one to three radicals W or from the group consisting of R¹², C₁-C₁₀-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₁-C₄-alkoxy and C₁-C₄-alkythio, where each substituent may be substituted by one or more substituents independently of one another selected from the group consisting of G, J, R⁶, halogen, cyano, nitro, amino, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-trialkylsilyl, phenyl and phenoxy, where each phenyl or phenoxy ring may optionally be substituted and where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,

G in each case independently of one another represents a 5- or 6-membered nonaromatic carbocyclic or heterocyclic ring which optionally contains one or two ring members from the group consisting of C(=O), SO and S(=O)₂ and which may optionally be substituted by one to four substituents independently of one another selected from the group consisting of C₁-C₂-alkyl, halogen, cyano, nitro and C₁-C₂-alkoxy, or independently of one another represents C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₇-cycloalkyl, (cyano)C₃-C₇-cycloalkyl, (C₁-C₄-alkyl)C₃-C₆-cycloalkyl, (C₃-C₆-cycloalkyl)C₁-C₄-alkyl, where each cycloalkyl, (alkyl)cycloalkyl and (cycloalkyl)-alkyl may optionally be substituted by one or more halogen atoms,

J in each case independently of one another represents an optionally substituted 5- or 6-membered heteroaromatic ring, where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,

R⁶ independently of one another represent -C(=E¹)R¹⁹, -LC(=E¹)R¹⁹, -C(=E¹)LR¹⁹, -LC(=E¹)LR¹⁹, -OP(=Q)(OR¹⁹)₂, -SO₂LR¹⁸ or -LSO₂LR¹⁹, where each E¹ independently of the others represents O, S, N-R¹⁵, N-OR¹⁵, N-N(R¹⁵)₂, N-S=O, N-CN or N-NO₂,

5 R⁷ represents hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, halogen, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl,

R⁹ represents C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylsulfinyl or halogen,

10 R¹⁰ represents hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, halogen, cyano or C₁-C₄-haloalkoxy,

R¹¹ in each case independently of one another represents in each case optionally mono- to trisubstituted C₁-C₆-alkylthio, C₁-C₆-alkylsulfenyl, C₁-C₆-haloalkythio, C₁-C₆-haloalkylsulfenyl, phenylthio or phenylsulfenyl, where the substituents independently of one another may be selected from the list consisting of W, -S(O)_nN(R¹⁶)₂, -C(=O)R¹³, -L(C=O)R¹⁴, -S(C=O)LR¹⁴, -C(=O)LR¹³, -S(O)_nNR¹³C(=O)R¹³, -S(O)_nNR¹³C(=O)LR¹⁴ and -S(O)_nNR¹³S(O)₂LR¹⁴,

15 L in each case independently of one another represents O, NR¹⁸ or S,

R¹² in each case independently of one another represents -B(OR¹⁷)₂, amino, SH, thiocyanato, C₃-C₈-trialkylsilyloxy, C₁-C₄-alkyl disulfide, -SF₅, -C(=E¹)R¹⁹, -LC(=E¹)R¹⁹, -C(=E¹)LR¹⁹, -LC(=E¹)LR¹⁹, -OP(=Q)(OR¹⁹)₂, -SO₂LR¹⁹ or -LSO₂LR¹⁹,

20 Q represents O or S,

R¹³ in each case independently of one another represents hydrogen or represents in each case optionally mono- or polysubstituted C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino and (C₁-C₄-alkyl)C₃-C₆-cycloalkylamino,

25 R¹⁴ in each case independently of one another represents in each case optionally mono- or polysubstituted C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₂-C₂₀-alkynyl or C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino and (C₁-C₄-alkyl)C₃-C₆-cycloalkylamino or represents optionally substituted phenyl, where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,

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R¹⁵ in each case independently of one another represent hydrogen or represent in each case mono- or polysubstituted C₁-C₆-haloalkyl or C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl and optionally substituted phenyl, where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹², or N(R¹⁵)₂ represents a cycle which forms the ring M,

5 R¹⁶ represents C₁-C₁₂-alkyl or C₁-C₁₂-haloalkyl, or N(R¹⁶)₂ represents a cycle which forms the ring M,

10 R¹⁷ in each case independently of one another represents hydrogen or C₁-C₄-alkyl, or B(OR¹⁷)₂ represents a ring, where the two oxygen atoms are attached via a chain to two or three carbon atoms which are optionally substituted by one or two substituents independently of one another selected from the group consisting of methyl and C₂-C₆-alkoxycarbonyl,

15 R¹⁸ in each case independently of one another represents hydrogen, C₁-C₆-alkyl or C₁-C₆-haloalkyl, or N(R¹³)(R¹⁸) represents a cycle which forms the ring M;

20 R¹⁹ in each case independently of one another represents hydrogen or represents in each case optionally mono- or polysubstituted C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, CO₂H, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl and optionally substituted phenyl, where the substituents independently of one another may be selected from one to three radicals W, C₁-C₆-haloalkyl, C₃-C₆-cycloalkyl or phenyl or pyridyl, each of which is optionally mono- to trisubstituted by W,

25 M in each case represents an optionally mono- to tetrasubstituted ring which, in addition to the nitrogen atom which is attached to the substituent pair R¹³ and R¹⁸, (R¹⁵)₂ or (R¹⁶)₂, contains two to six carbon atoms and optionally additionally a further nitrogen, sulfur or oxygen atom, and where the substituents independently of one another may be selected from the group consisting of C₁-C₂-alkyl, halogen, cyano, nitro and C₁-C₂-alkoxy,

30 W in each case independently of one another represents C₁-C₄-alkyl, C₂-C₄-alkenyl,

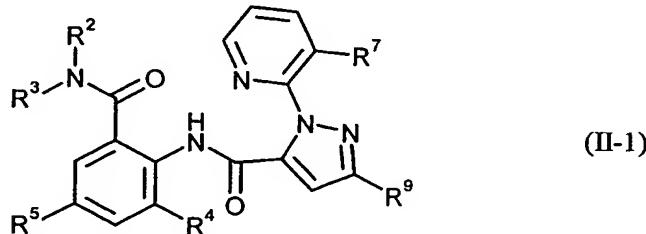
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C₂-C₄-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-haloalkyl, C₂-C₄-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, (C₁-C₄-alkyl)C₃-C₆-cycloalkylamino, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, CO₂H, C₂-C₆-alkylaminocarbonyl, C₃-C₈-dialkylaminocarbonyl or C₃-C₆-trialkylsilyl,

5 n in each case independently of one another represents 0 or 1,
 p in each case independently of one another represents 0, 1 or 2.

10 where in the case that (a) R⁵ represents hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylthio or halogen and (b)
 R⁸ represents hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylthio, halogen, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl or C₃-C₈ dialkylaminocarbonyl, (c) at least one
 15 substituent selected from the group consisting of R⁶, R¹¹ and R¹² is present and (d), if R¹² is not present, at least one R⁶ or R¹¹ is different from C₂-C₆-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl and C₃-C₈-dialkylaminocarbonyl.

20 7. The composition as claimed in claim 1, 2, 3, 4, 5 or 6, comprising an anthranilamide of the formula (II-1)



in which

R² represents hydrogen or C₁-C₆-alkyl,
 R³ represents C₁-C₆-alkyl which is optionally substituted by a radical R⁶,
 R⁴ represents C₁-C₄-alkyl, C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy or halogen,
 R⁵ represents hydrogen, C₁-C₄-alkyl, C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy or halogen,
 R⁶ represents -C(=E²)R¹⁹, -LC(=E²)R¹⁹, -C(=E²)LR¹⁹ or -LC(=E²)LR¹⁹, where each E²
 25 independently of the others represents O, S, N-R¹⁵, N-OR¹⁵, N-N(R¹⁵)₂, and each L
 independently of the others represents O or NR¹⁸,
 R⁷ represents C₁-C₄-haloalkyl or halogen,
 R⁹ represents C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy, S(O)_pC₁-C₂-haloalkyl or halogen,
 R¹⁵ in each case independently of one another represents hydrogen or represents in

each case optionally substituted C₁-C₆-haloalkyl or C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl or C₁-C₄-haloalkylsulfonyl,

5 R¹⁸ in each case represents hydrogen or C₁-C₄-alkyl,

 R¹⁹ in each case independently of one another represents hydrogen or C₁-C₆-alkyl,

 p independently of one another represents 0, 1, 2.

10 8. The composition as claimed in claim 1, 2, 3, 4, 5, 6 or 7, comprising compounds of the formula (I) (group 1) or at least one acaricidally active compound (group 2) and at least one anthranilamide of the formula (II) in a ratio of from 500:1 to 1:50.

15 9. The use of a synergistically effective mixture as defined in claims 1, 2, 3, 4, 5 6 or 7 for controlling animal pests.

10. A process for preparing pesticides, characterized in that a synergistically effective mixture as defined in claims 1, 2, 3, 4, 5 6 or 7 is mixed with extenders and/or surfactants.

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